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Eğitim Bilgileri

Doktora, Technische Universitaet Wien, Polimer Kimyası, Avusturya 1978 - 1981

Lisans, İstanbul Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Türkiye 1972 - 1977

Yabancı Diller

Almanca

İngilizce

Araştırma Alanları

Temel Bilimler, Kimya, Fizikokimya, Biyopolimerler ve uygulamaları, Polimer Kimyada Yeni Teknolojiler, Polimerik Malzemeler, Polimerlerin Tıbbi Uygulamaları

Akademik Unvanlar / Görevler

Prof.Dr., İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 1998 - Devam Ediyor

Prof.Dr., Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 1995 - 1998

Doç.Dr., Doğu Akdeniz Üniversitesi, Fen-Edebiyat, Kimya, 1990 - 1992

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Cryogenic formation-structure-property relationships of poly(2-acrylamido-2-methyl-1-propanesulfonic acid) cryogels**
Su E., Okay O.
POLYMER, cilt.178, 2019 (SCI-Expanded)
- II. **Single-, Double-, and Triple-Network Macroporous Rubbers as a Passive Sampler**
Yetiskin B., Türeyen O. E., Yılmaz A., Yakan S. D., Okay O., Okay O.

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- III. **Cryogel composites based on hyaluronic acid and halloysite nanotubes as scaffold for tissue engineering**
Suner S. S., Demirci S., Yetiskin B., Fakhrullin R., Naumenko E., Okay O., Ayyala R. S., ŞAHİNER N.
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- IV. **A Self-Healing and Highly Stretchable Polyelectrolyte Hydrogel via Cooperative Hydrogen Bonding as a Superabsorbent Polymer**
Su E., Yurtsever M., Okay O.
MACROMOLECULES, cilt.52, sa.9, ss.3257-3267, 2019 (SCI-Expanded)
- V. **Structure-property relationships of novel phosphonate-functionalized networks and gels of poly(beta-amino esters)**
Altuncu S., Duman F. D., Gulyuz U., Acar H. Y., Okay O., AVCI SEMİZ D.
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- VI. **Mechanically robust and stretchable silk/hyaluronic acid hydrogels**
Tavşanlı B., Okay O.
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- VII. **Semicrystalline physical hydrogels with shape-memory and self-healing properties**
Okay O.
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- VIII. **High-strength and self-recoverable silk fibroin cryogels with anisotropic swelling and mechanical properties**
Yetiskin B., Okay O.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, cilt.122, ss.1279-1289, 2019 (SCI-Expanded)
- IX. **Monitoring the Instant Creation of a New Fluorescent Signal for Evaluation of DNA Conformation Based on Intercalation Complex**
Uzumcu A. T., Güney O., Okay O.
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- X. **Toughness improvement and anisotropy in semicrystalline physical hydrogels**
BİLİCİ C., Karaarslan D., İDE S., Okay O.
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- XI. **Bisphosphonic Acid-Functionalized Cross-Linkers to Tailor Hydrogel Properties for Biomedical Applications**
Güven M. N., Altuncu M. S., Bal T., Oran D. C., Gulyuz U., Kizilel S., Okay O., Avci D.
ACS OMEGA, cilt.3, sa.8, ss.8638-8647, 2018 (SCI-Expanded)
- XII. **Interfacing Soft and Hard Materials with Triple-Shape-Memory and Self-Healing Functions**
ARGUN A., GULYUZ U., Okay O.
MACROMOLECULES, cilt.51, sa.7, ss.2437-2446, 2018 (SCI-Expanded)
- XIII. **Highly Stretchable DNA/Clay Hydrogels with Self-Healing Ability**
Uzumcu A. T., Güney O., Okay O.
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- XIV. **Hybrid cross-linked poly(2-acrylamido-2-methyl-1-propanesulfonic acid) hydrogels with tunable viscoelastic, mechanical and self-healing properties**
Su E., Okay O.
REACTIVE & FUNCTIONAL POLYMERS, cilt.123, ss.70-79, 2018 (SCI-Expanded)
- XV. **Cryogelation within cryogels: Silk fibroin scaffolds with single-, double- and triple-network structures**
YETISKIN B., AKİNCİ C., Okay O.
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- XVI. **Mechanically strong hyaluronic acid hydrogels with an interpenetrating network structure**
Tavşanlı B., Okay O.
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- XVII. **Yielding Behavior of Tough Semicrystalline Hydrogels**
BILICI C., İDE S., Okay O.
MACROMOLECULES, cilt.50, sa.9, ss.3647-3654, 2017 (SCI-Expanded)
- XVIII. **High-strength silk fibroin scaffolds with anisotropic mechanical properties**
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- XIX. **Polyampholyte hydrogels formed via electrostatic and hydrophobic interactions**
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EUROPEAN POLYMER JOURNAL, cilt.88, ss.191-204, 2017 (SCI-Expanded)
- XX. **Reversibility of strain stiffening in silk fibroin gels**
OZTOPRAK Z., Okay O.
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- XXI. **Preparation and fracture process of high strength hyaluronic acid hydrogels cross-linked by ethylene glycol diglycidyl ether**
Tavşanlı B., Okay O.
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- XXII. **Melt-Processable Shape-Memory Hydrogels with Self-Healing Ability of High Mechanical Strength**
BILICI C., CAN V., NOCHEL U., BEHL M., LENDLEIN A., Okay O.
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- XXIII. **Nanocomposite DNA hydrogels with temperature sensitivity**
Uzumcu A. T., Güney O., Okay O.
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- XXIV. **High-strength semi-crystalline hydrogels with self-healing and shape memory functions**
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- XXV. **Nanostructural Evolution and Self-Healing Mechanism of Micellar Hydrogels**
CAN V., KOCHOVSKI Z., REITER V., SEVERIN N., SIEBENBUERGER M., KENT B., JUST J., RABE J. P., BALLAUFF M., Okay O.
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- XXVI. **Self-healing poly(N-isopropylacrylamide) hydrogels**
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- XXVII. **Preparation and physical properties of hyaluronic acid-based cryogels**
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- XXVIII. **Mechanically strong triple network hydrogels based on hyaluronan and poly(N,N-dimethylacrylamide)**
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- XXIX. **Self-Healing Hydrogels Formed via Hydrophobic Interactions**
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- XXX. **Self-Healing Poly(acrylic acid) Hydrogels with Shape Memory Behavior of High Mechanical Strength**
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- XXXI. **Highly stretchable self-healing poly(N,N-dimethylacrylamide) hydrogels**
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- XXXII. **Nonionic Double and Triple Network Hydrogels of High Mechanical Strength**
ARGUN A., CAN V., ALTUN U., Okay O.
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- XXXIII. **Porous rubber cryogels: effect of the gel preparation temperature**
OZTOPRAK Z., HEKIMOGLU T., KARAKUTUK I., TUNCABOYLU D. C., Okay O.
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- XXXIV. **Surfactant-induced healing of tough hydrogels formed via hydrophobic interactions**
ARGUN A., ALGI M. P., TUNCABOYLU D. C., Okay O.
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- XXXV. **Synthesis and Structure-Property Relationships of Cryogels**
Okay O., LOZINSKY V. I.
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- XXXVI. **Basic Principles of Cryotropic Gelation**
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- XXXVII. **Polymeric Cryogels Macroporous Gels with Remarkable Properties Preface**
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- XXXVIII. **Autonomic self-healing in covalently crosslinked hydrogels containing hydrophobic domains**
TUNCABOYLU D. C., ARGUN A., ALGI M. P., Okay O.
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- XXXIX. **Swelling behavior of physical and chemical DNA hydrogels**
KARACAN P., CAKMAK H., Okay O.
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- XL. **Tough interpenetrating Pluronic F127/polyacrylic acid hydrogels**
BASKAN T., TUNCABOYLU D. C., Okay O.
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- XLI. **Shape Memory Hydrogels via Mice liar Copolymerization of Acrylic Acid and n-Octadecyl Acrylate in Aqueous Media**
BILICI C., Okay O.
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- XLII. **Ethidium bromide binding to DNA cryogels**
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- XLIII. **Macroporous Silk Fibroin Cryogels**
AK F., OZTOPRAK Z., KARAKUTUK I., Okay O.
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- XLIV. **Self-healing polyacrylic acid hydrogels**
GULYUZ U., Okay O.
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- XLV. **Self-healing hydrogels formed in catanionic surfactant solutions**
AKAY G., HASSAN-RAEISI A., TUNCABOYLU D. C., Orakdöğen N., Abdurrahmanoglu S., OPPERMANN W., Okay O.
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- XLVI. **Structure optimization of self-healing hydrogels formed via hydrophobic interactions**
TUNCABOYLU D. C., ARGUN A., SAHIN M., SARI M., Okay O.
POLYMER, cilt.53, sa.24, ss.5513-5522, 2012 (SCI-Expanded)
- XLVII. **Diepoxide-Triggered Conformational Transition of Silk Fibroin: Formation of Hydrogels**
KARAKUTUK I., AK F., Okay O.
BIOMACROMOLECULES, cilt.13, sa.4, ss.1122-1128, 2012 (SCI-Expanded)
- XLVIII. **Dynamics and Large Strain Behavior of Self-Healing Hydrogels with and without Surfactants**
TUNCABOYLU D. C., SAHIN M., ARGUN A., OPPERMANN W., Okay O.
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- XLIX. Macroporous, responsive DNA cryogel beads**
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- L. Tough and Self-Healing Hydrogels Formed via Hydrophobic Interactions**
TUNCABOYLU D. C., SARI M., OPPERMANN W., Okay O.
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- LI. DNA Hydrogels: New Functional Soft Materials**
Okay O.
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- LII. Solution Cross-Linked Natural Rubber (NR)/Clay Aerogel Composites**
Pojanavaraphan T., Liu L., CEYLAN D., Okay O., MAGARAPHAN R., Schiraldi D. A.
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- LIIL. Dodecyl methacrylate as a crosslinker in the preparation of tough polyacrylamide hydrogels**
Abdurrahmanoglu S., CILINGIR M., Okay O.
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- LIV. Self-Oscillating pH-Responsive Cryogels as Possible Candidates of Soft Materials for Generating Mechanical Energy**
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- LV. Macroporous rubber gels as reusable sorbents for the removal of oil from surface waters**
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- LVI. Hierarchically Macroporous Cryogels of Polyisobutylene and Silica Nanoparticles**
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- LVII. Rheological Behavior of Polymer-Clay Nanocomposite Hydrogels: Effect of Nanoscale Interactions**
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- LVIII. Evidence of Strain Hardening in DNA Gels**
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- LIX. Design of high-toughness polyacrylamide hydrogels by hydrophobic modification**
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- LX. Formation of Hydrogels by Simultaneous Denaturation and Cross-Linking of DNA**
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- LXI. Collapse of Acrylamide-Based Polyampholyte Hydrogels in Water**
DOGU S., KILIC M., Okay O.
JOURNAL OF APPLIED POLYMER SCIENCE, cilt.113, sa.3, ss.1375-1382, 2009 (SCI-Expanded)
- LXII. Preparation and characterization of single-hole macroporous organogel particles of high toughness and superfast responsivity**
TUNCABOYLU D. C., Okay O.
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- LXIII. Evaluation of Butyl Rubber as Sorbent Material for the Removal of Oil and Polycyclic Aromatic Hydrocarbons from Seawater**
CEYLAN D., DOGU S., Karacik B., Yakan S. D., Okay O., Okay O.
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- LXV. **Rheological Behavior of Responsive DNA Hydrogels**
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- LXVI. **Homogeneous Poly(acrylamide) Hydrogels Made by Large Size, Flexible Dimethacrylate Cross-Linkers**
 Abdurrahmanoglu S., Okay O.
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- LXVII. **Tough organogels based on polyisobutylene with aligned porous structures**
 DOGU S., Okay O.
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- LXVIII. **Formation of macroporous poly(acrylamide) hydrogels in DMSO/water mixture: Transition from cryogelation to phase separation copolymerization**
 OZMEN M. M., Okay O.
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- LXIX. **Equilibrium swelling behavior and elastic properties of polymer-clay nanocomposite hydrogels**
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- LXX. **Preparation of macroporous poly(acrylamide) hydrogels in DMSO/water mixture at subzero temperatures**
 OZMEN M. M., DINU M. V., Okay O.
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- LXXI. **Preparation of homogeneous hydrogels by controlling the crosslinker reactivity and availability**
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- LXXII. **Macroporous polyisobutylene gels: A novel tough organogel with superfast responsivity**
 CEYLAN D., Okay O.
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- LXXIII. **Preparation of macroporous acrylamide-based hydrogels: Cryogelation under isothermal conditions**
 OZMEN M. M., DINU M. V., DRAGAN E. S., Okay O.
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- LXXIV. **Unusual swelling behavior of polymer-clay nanocomposite hydrogels**
 CAN V., ABDURRAHMANOGLU S., Okay O.
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- LXXV. **Preparation of homogeneous polyacrylamide hydrogels by free-radical crosslinking copolymerization**
 KURU E. A., Orakdogan N., Okay O.
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- LXXVI. **Polyacrylamide-clay nanocomposite hydrogels: Rheological and light scattering characterization**
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- LXXVII. **Influence of the initiator system on the spatial inhomogeneity in acrylamide-based hydrogels**
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- LXXVIII. **Freezing as a path to build macroporous structures: Superfast responsive polyacrylamide hydrogels**
 DINU M. V., OZMEN M. M., DRAGAN E. S., Okay O.
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- LXXIX. **Network development in mixed step-chain growth thiol-vinyl photopolymerizations**
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- LXXX. **Phase transition of acrylamide-based polyampholyte gels in water**
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- LXXXI. **Correlation between crosslinking efficiency and spatial inhomogeneity in poly(acrylamide) hydrogels**
Orakdogan N., Okay O.
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- LXXXII. **Superfast responsive ionic hydrogels: Effect of the monomer concentration**
Ozmen M. M., Okay O.
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- LXXXIII. **Effect of initial monomer concentration on the equilibrium swelling and elasticity of hydrogels**
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- LXXXIV. **Reentrant conformation transition in poly(N,N-dimethylacrylamide) hydrogels in water-organic solvent mixtures**
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- LXXXV. **Swelling-deswelling kinetics of ionic poly(acrylamide) hydrogels and cryogels**
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- LXXXVI. **Swelling-deswelling kinetics of poly(N-isopropylacrylamide) hydrogels formed in PEG solutions**
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- LXXXVII. **Suppression of inhomogeneities in hydrogels formed by free-radical crosslinking copolymerization**
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- LXXXVIII. **Superfast responsive ionic hydrogels with controllable pore size**
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- LXXXIX. **Effect of spatial gel inhomogeneity on the elastic modulus of strong polyelectrolyte hydrogels**
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- XC. **Molecular weight development during thiol-ene photopolymerizations**
Okay O., REDDY S., BOWMAN C.
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- XCI. **Kinetic modeling of thiol-ene reactions with both step and chain growth aspects**
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- XCII. **Spatial inhomogeneity in poly(acrylic acid) hydrogels**
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- XCIII. **Shake gels based on Laponite-PEO mixtures: effect of polymer molecular weight**
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- XCIV. **Swelling and elasticity of poly (N-isopropylacrylamide-co-4-vinyl benzene sulfonic acid sodium salt) hydrogels**
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- XCV. **Non-Gaussian elasticity of poly(2-acrylamido-2-methylpropane sulfonic acid) gels**

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XVII. Hydrogels with self-healing and shape-memory properties tuned by hydrophobic interactions

Okay O.

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XVIII. Synthesis-structure-property relationships for polymeric cryogels

Okay O.

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XIX. Formation of macroporous DNA and silk fibroin gels via cryogelation

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Yakan Dünder S. D., Karacık B., CEYLAN TUNCABOYLU D., Doğu S., Okay O., Okay O.

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Metrikler

Yayın: 236
Atıf (WoS): 8234
Atıf (Scopus): 7833
H-İndeks (WoS): 51
H-İndeks (Scopus): 48

Kongre ve Sempozyum Katılımı Faaliyetleri

6. Fiziksel Kimya Kongresi, Davetli Konuşmacı, Zonguldak, Türkiye, 2017
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6. Ulusal Polimer Bilim ve Teknoloji Kongresi,, Davetli Konuşmacı, Ankara, Türkiye, 2016
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Stuttgart Üniversitesi, Teknik Kimya Enstitüsü
Technische Universität Wien, Avusturya